

What is claimed is,

1. A sleeve for a press roll,

wherein the sleeve is a cylindrical sleeve (1) to be used by externally mounting on a press roll (2), and the cylindrical sleeve (1) comprises a cylindrical main layer (11) composed with a composite material, where a fiber reinforcing material is bound with a matrix resin.

2. The sleeve for the press roll according to the claim 1,

wherein, the first cover layer (12) comprising the composite material, where the fiber reinforcing material is bound with the matrix resin, is formed on an outer peripheral surface of the cylindrical main layer (11), and the second cover layer (13) is formed on an inner circumference surface of the cylindrical main layer (11).

3. The sleeve for the press roll according to the claim 2,

wherein a cushion layer (14) is formed between the main layer (11) and the second cover layer (13), or the third cover layer (15) and the cushion layer (14) are formed between the main layer (11) and the second cover layer (13) in this order.

4. The sleeve for the press roll according to the

claim 1,

wherein at least a part of the fiber reinforcing material in the main layer (11) comprises a material having high heat conductivity.

5. The sleeve for the press roll according to the claim 2,

wherein at least a part of the fiber reinforcing material in the first cover layer (12) comprises the material having high heat conductivity.

6. A sleeve mounted press roll,

wherein the cylindrical sleeve (1) to be used by externally mounting on the press roll (2) is externally mounted in a non-fixed state on the press roll (2), and

said cylindrical sleeve (1) comprises the cylindrical main layer (11) composed with the composite material, where a fiber reinforcing material is bound with a matrix resin.

7. The sleeve mounted press roll according to the claim 6,

wherein the press roll (2) is a press roll of a corrugator being a corrugated cardboard manufacturing device.

8. The sleeve mounted press roll according to the claim 6,

wherein a regulating means (2a) for regulating the move in an axial direction of the sleeve (1) externally mounted on the press roll (2) is provided at said press roll (2).

9. The sleeve mounted press roll according to the claim 6,

wherein the press roll (2) is the roll made with a metal or a material having elasticity.

10. The sleeve mounted press roll according to the claim 6,

wherein the press roll (2) is a fixed or rotational roll, and a fluid can be fed between the press roll (2) and the sleeve (1) externally mounted on the press roll (2).

11. The sleeve mounted press roll according to the claim 6,

wherein the press roll (2) is a press roll pressing toward a corrugation roll (3) of the corrugator being a corrugated cardboard manufacturing device,

the press roll (2) is a fixed or rotational roll and the fluid can be fed between the press roll (2) and the sleeve (1) externally mounted on said press roll (2), the auxiliary rolls (7) and (7) are provided at the outer peripheral side of the press roll (2)

externally mounted with the sleeve (1) and the both sides of a contacted position (P), where the press roll (2) is contacted with the corrugation roll (3), and said auxiliary rolls (7) and (7) can suppress the fluid fed between the press roll (2) and the sleeve (1) to escape from the pressed position by the pressure in the contacted position (P).